

TABLE 4

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NET PRESENT VALUE ANALYSIS (30 YEARS, 7%)
(LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO)
NORTH SANITARY LANDFILL
DAYTON, OHIO

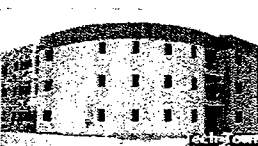
Cost Type	Year	Total Cost	Total Cost Per Year	Discount Factor (7%)	Present Value
<u>Alternative 2a</u>					
Capital Cost	0	\$ 22,705,311	\$ 22,705,311	1.000	\$ 22,705,311
Annual O&M Cost	1-30	\$ 24,870,000	\$ 829,000	12.409	\$ 10,287,095
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.258	\$ 16,797
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.184	\$ 11,976
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.131	\$ 68,311
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 48,550,311			\$ 33,209,514
<u>Alternative 2b</u>					
Capital Cost	0	\$ 24,113,757	\$ 24,113,757	1.000	\$ 24,113,757
Annual O&M Cost	1-30	\$ 32,732,400	\$ 1,091,080	12.409	\$ 13,539,257
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
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Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.184	\$ 11,976
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.131	\$ 93,927
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 58,016,157			\$ 37,895,738
<u>Alternative 3a</u>					
Capital Cost	0	\$ 17,846,790	\$ 17,846,790	1.000	\$ 17,846,790
Annual O&M Cost	1-30	\$ 25,104,000	\$ 836,800	12.409	\$ 10,383,886
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
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Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.131	\$ 68,311
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 43,925,790			\$ 28,447,784
<u>Alternative 3b</u>					
Capital Cost	0	\$ 19,255,236	\$ 19,255,236	1.000	\$ 19,255,236
Annual O&M Cost	1-30	\$ 32,966,400	\$ 1,098,880	12.409	\$ 13,636,047
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
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Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.184	\$ 11,976
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.131	\$ 93,927
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 53,391,636			\$ 33,134,008

ATTACHMENT A

CITY OF DAYTON'S SCHEDULE OF RATES FOR
SEWER SERVICE



High-Tech
Industries



Home | About | Contact | Information | Services | Departments | News | Services | My Dayton

Water Service Rates

Minimum charge per quarter

RATES FOR WATER SERVICE

Minimum Charge Per Quarter

(Effective January 1, 2007)

1/4"	Meter	\$12.00
3/8"	Meter	\$21.50
1"	Meter	\$46.50
1.5"	Meter	\$91.50
2"	Meter	\$168.00
3"	Meter	\$258.00
4"	Meter	\$351.00
6"	Meter	\$690.00
8"	Meter	\$1,035.00
10"	Meter	\$1,350.00
12"	Meter	\$1,665.00
15"	Meter	\$2,115.00
18"	17,000 CF (1000)	\$2,430.00
24"	25,000 CF (1000)	\$2,745.00
30"	33,000 CF (1000)	\$3,060.00
36"	41,000 CF (1000)	\$3,375.00
42"	49,000 CF (1000)	\$3,690.00

RATES FOR SEWER SERVICE

Minimum Charge Per Quarter

(Effective January 1, 2007)

1/4"	150	\$12.00
3/8"	150	\$21.50
1"	150	\$46.50
1.5"	150	\$91.50
2"	150	\$168.00
3"	150	\$258.00
4"	150	\$351.00
6"	150	\$690.00
8"	150	\$1,035.00
10"	150	\$1,350.00
12"	150	\$1,665.00
15"	150	\$2,115.00
18"	150	\$2,430.00
24"	150	\$2,745.00
30"	150	\$3,060.00
36"	150	\$3,375.00
42"	150	\$3,690.00

Minimum charge per month

RATES FOR WATER SERVICE

Minimum Charge Per Month

(Effective January 1, 2007)

1/4"	Meter	\$12.00
3/8"	Meter	\$21.50
1"	Meter	\$46.50
1.5"	Meter	\$91.50
2"	Meter	\$168.00
3"	Meter	\$258.00
4"	Meter	\$351.00
6"	Meter	\$690.00
8"	Meter	\$1,035.00
10"	Meter	\$1,350.00
12"	Meter	\$1,665.00
15"	Meter	\$2,115.00
18"	Meter	\$2,430.00
24"	17,000 CF (1000)	\$2,745.00
30"	25,000 CF (1000)	\$3,060.00
36"	33,000 CF (1000)	\$3,375.00
42"	41,000 CF (1000)	\$3,690.00
48"	49,000 CF (1000)	\$4,005.00

RATES FOR SEWER SERVICE

Minimum Charge Per Month

(Effective January 1, 2007)

1/4"	150	\$12.00
3/8"	150	\$21.50
1"	150	\$46.50
1.5"	150	\$91.50
2"	150	\$168.00
3"	150	\$258.00
4"	150	\$351.00
6"	150	\$690.00
8"	150	\$1,035.00
10"	150	\$1,350.00
12"	150	\$1,665.00
15"	150	\$2,115.00
18"	150	\$2,430.00
24"	150	\$2,745.00
30"	150	\$3,060.00
36"	150	\$3,375.00
42"	150	\$3,690.00
48"	150	\$4,005.00

NOTICE

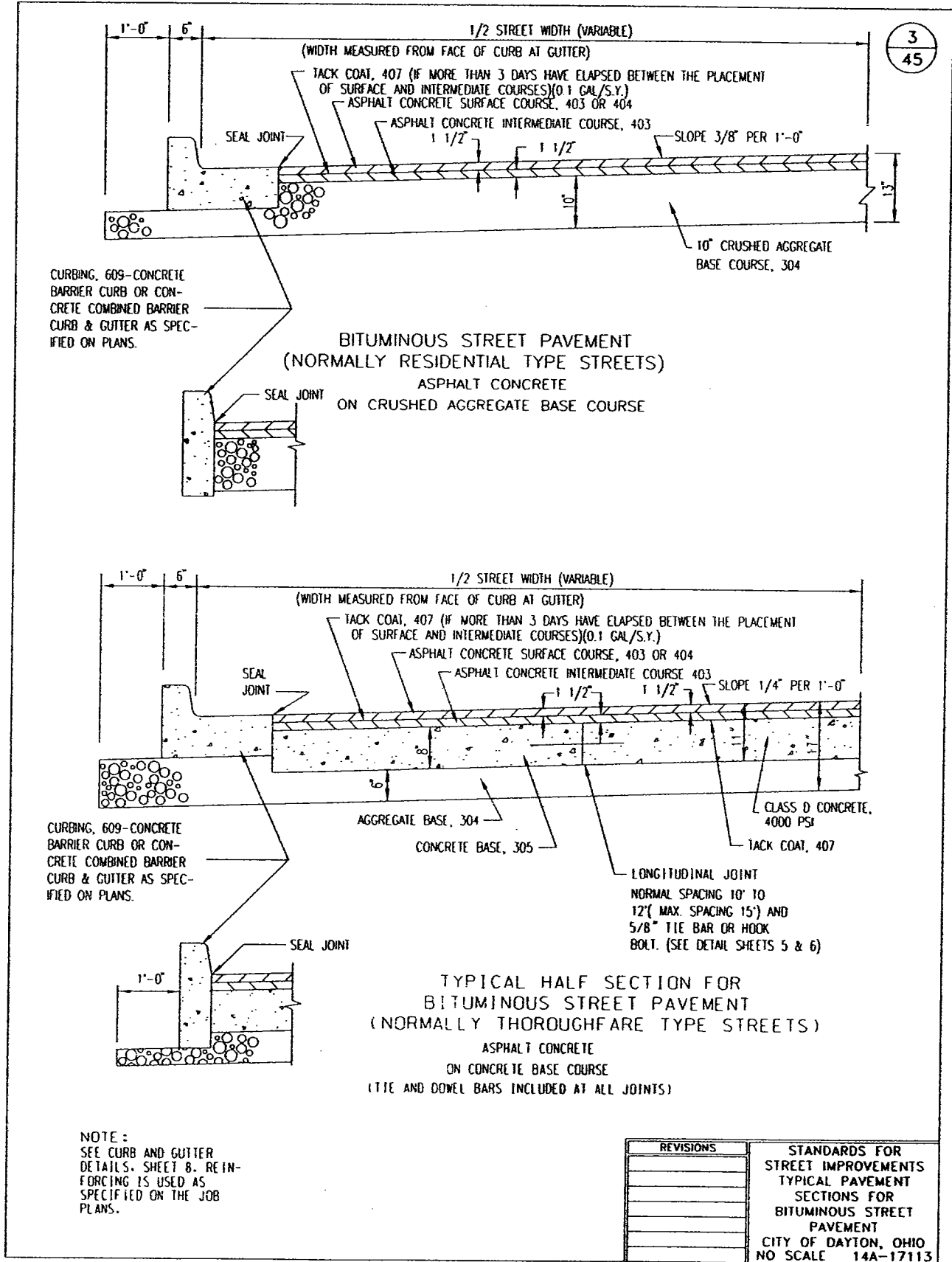
NOTICE

Net amount (5% discount) allowed if paid by the day
 specified. Gross amount payable thereafter.
 For further information: 233-3550

Biomedical Capital Demand (BMD) in excess of \$50,000	\$0.0000
Suspended Solids in excess of 100 mg/l	\$0.0000
Special monitoring cost	\$0.0000

ATTACHMENT B

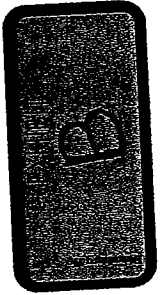
CITY OF DAYTON'S STANDARDS
FOR STREET IMPROVEMENTS



	2a		2b		3a		3b	
	Total	NPV	Total	NPV	Total	NPV	Total	NPV
POTW Base	\$48,550,311	\$33,209,514	\$58,016,157	\$37,895,738	\$43,925,790	\$28,447,784	\$53,391,636	\$33,134,008
POTW Variation	\$52,137,700	\$43,113,469	\$62,301,568	\$50,460,529	\$47,156,997	\$38,052,126	\$57,320,865	\$45,399,187
T&D Base	\$114,191,886	\$59,215,105	\$218,112,867	\$102,458,431	\$126,552,015	\$61,478,816	\$230,472,996	\$104,722,141
T&D Variation	\$122,698,630	\$90,379,862	\$234,400,108	\$166,412,588	\$135,976,437	\$97,723,881	\$247,677,885	\$173,756,586

Base Assumptions are 7% NPV Discount Rate and \$O for agency oversight of the RDRA both of which are unrealistic.

Variation Assumptions are 9% oversight costs of the RDRA based on actual experience at the Site over the history of the Site and 2.7% NPV Discount Rate based on U.S. Government data on prevailing prime interest rates and predictions regarding future rates.



NET PRESENT VALUE ANALYSIS (30 YEARS, 0% AGENCY OVERSIGHT, 7% DISCOUNT RATE)
(LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO)
NORTH SANITARY LANDFILL
DAYTON, OHIO

Page 1 of 5

Cost Type	Year	Total Cost	Total Cost Per Year	Discount Factor (7%)	Present Value
Alternative 2a					
Capital Cost	0	\$ 22,705,311	\$ 22,705,311	1.000	\$ 22,705,311
Annual O&M Cost	1-30	\$ 24,870,000	\$ 829,000	12.409	\$ 10,287,095
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.258	\$ 16,797
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.184	\$ 11,976
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.131	\$ 68,311
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 48,550,311			\$ 33,209,514
Alternative 2b					
Capital Cost	0	\$ 24,113,757	\$ 24,113,757	1.000	\$ 24,113,757
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		\$ 58,016,157			\$ 37,895,738
Alternative 3a					
Capital Cost	0	\$ 17,846,790	\$ 17,846,790	1.000	\$ 17,846,790
Annual O&M Cost	1-30	\$ 25,104,000	\$ 836,800	12.409	\$ 10,383,886
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		\$ 43,925,790			\$ 28,447,784
Alternative 3b					
Capital Cost	0	\$ 19,255,236	\$ 19,255,236	1.000	\$ 19,255,236
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		\$ 53,391,636			\$ 33,134,008

NET PRESENT VALUE ANALYSIS (30 YEARS, 9% AGENCY OVERSIGHT, 2.7% DISCOUNT RATE)
(LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO)
NORTH SANITARY LANDFILL
DAYTON, OHIO

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Cost Type	Year	Total Cost	Total Cost Per Year	Discount Factor (2.7%)	Present Value
Alternative 2a					
Capital Cost	0	\$ 24,449,950	\$ 24,449,950	1.000	\$ 24,449,950
Annual O&M Cost	1-30	\$ 26,712,750	\$ 890,425	20.383	\$ 18,149,417
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.450	\$ 233,825
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 52,137,700			\$ 43,113,469
Alternative 2b					
Capital Cost	0	\$ 25,966,738	\$ 25,966,738	1.000	\$ 25,966,738
Annual O&M Cost	1-30	\$ 35,164,830	\$ 1,172,161	20.383	\$ 23,892,005
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.450	\$ 321,509
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 62,301,568			\$ 50,460,529
Alternative 3a					
Capital Cost	0	\$ 19,217,697	\$ 19,217,697	1.000	\$ 19,217,697
Annual O&M Cost	1-30	\$ 26,964,300	\$ 898,810	20.383	\$ 18,320,327
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.450	\$ 233,825
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 47,156,997			\$ 38,052,126
Alternative 3b					
Capital Cost	0	\$ 20,734,485	\$ 20,734,485	1.000	\$ 20,734,485
Annual O&M Cost	1-30	\$ 35,416,380	\$ 1,180,546	20.383	\$ 24,062,915
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.450	\$ 321,509
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 57,320,865			\$ 45,399,187

NET PRESENT VALUE ANALYSIS (30 YEARS, 0% AGENCY OVERSIGHT, 7% DISCOUNT RATE)
(LEACHATE/GROUNDWATER T&D SCENARIO)
NORTH SANITARY LANDFILL
DAYTON, OHIO

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Cost Type	Year	Total Cost	Total Cost Per Year	Discount Factor (7%)	Present Value
Alternative 2a					
Capital Cost	0	\$ 20,750,826	\$ 20,750,826	1.000	\$ 20,750,826
Annual O&M Cost	1-30	\$ 92,466,060	\$ 3,082,202	12.409	\$ 38,247,172
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.258	\$ 16,797
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.184	\$ 11,976
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.131	\$ 68,311
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 114,191,886			\$ 59,215,105
Alternative 2b					
Capital Cost	0	\$ 21,284,697	\$ 21,284,697	1.000	\$ 21,284,697
Annual O&M Cost	1-30	\$ 195,658,170	\$ 6,521,939	12.409	\$ 80,931,010
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
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Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.131	\$ 93,927
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 218,112,867			\$ 102,458,431
Alternative 3a					
Capital Cost	0	\$ 15,892,305	\$ 15,892,305	1.000	\$ 15,892,305
Annual O&M Cost	1-30	\$ 109,684,710	\$ 3,656,157	12.409	\$ 45,369,403
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
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Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.131	\$ 68,311
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 126,552,015			\$ 61,478,816
Alternative 3b					
Capital Cost	0	\$ 16,426,176	\$ 16,426,176	1.000	\$ 16,426,176
Annual O&M Cost	1-30	\$ 212,876,820	\$ 7,095,894	12.409	\$ 88,053,241
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.713	\$ 46,344
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.508	\$ 33,043
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.362	\$ 23,559
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Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.131	\$ 93,927
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.131	\$ 17,078
		\$ 230,472,996			\$ 104,722,141

NET PRESENT VALUE ANALYSIS (30 YEARS, 9% AGENCY OVERSIGHT, 2.7% DISCOUNT RATE)
(LEACHATE/GROUNDWATER T&D SCENARIO)
NORTH SANITARY LANDFILL
DAYTON, OHIO

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Cost Type	Year	Total Cost	Total Cost Per Year	Discount Factor (2.7%)	Present Value
Alternative 2a					
Capital Cost	0	\$ 22,345,120	\$ 22,345,120	1.000	\$ 22,345,120
Annual O&M Cost	1-30	\$ 99,378,510	\$ 3,312,617	20.383	\$ 67,520,640
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
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Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.450	\$ 233,825
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 122,698,630			\$ 90,379,862
Alternative 2b					
Capital Cost	0	\$ 22,920,058	\$ 22,920,058	1.000	\$ 22,920,058
Annual O&M Cost	1-30	\$ 210,310,050	\$ 7,010,335	20.383	\$ 142,890,744
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
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Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.450	\$ 321,509
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 234,400,108			\$ 166,412,588
Alternative 3a					
Capital Cost	0	\$ 17,112,867	\$ 17,112,867	1.000	\$ 17,112,867
Annual O&M Cost	1-30	\$ 117,888,570	\$ 3,929,619	20.383	\$ 80,096,911
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 520,000	\$ 520,000	0.450	\$ 233,825
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 135,976,437			\$ 97,723,881
Alternative 3b					
Capital Cost	0	\$ 17,687,805	\$ 17,687,805	1.000	\$ 17,687,805
Annual O&M Cost	1-30	\$ 228,820,080	\$ 7,627,336	20.383	\$ 155,466,995
Periodic Cost (5-Year Review)	5	\$ 65,000	\$ 65,000	0.875	\$ 56,893
Periodic Cost (5-Year Review)	10	\$ 65,000	\$ 65,000	0.766	\$ 49,798
Periodic Cost (5-Year Review)	15	\$ 65,000	\$ 65,000	0.671	\$ 43,587
Periodic Cost (5-Year Review)	20	\$ 65,000	\$ 65,000	0.587	\$ 38,151
Periodic Cost (5-Year Review)	25	\$ 65,000	\$ 65,000	0.514	\$ 33,393
Periodic Cost (Decommissioning)	30	\$ 715,000	\$ 715,000	0.450	\$ 321,509
Periodic Cost (Remedial Action Report)	30	\$ 130,000	\$ 130,000	0.450	\$ 58,456
		\$ 247,677,885			\$ 173,756,586

SUMMARY OF ESTIMATED CAPITAL, ANNUAL O&M, AND PERIODIC COSTS
(LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO, 0% AGENCY OVERSIGHT)
NORTH SANITARY LANDFILL
DAYTON, OHIO

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Environmental Media	Alternative No.:	2a	2b	3a	3b
	Disposal Area 1, 2, 3, 5 Cap:	SW Cap	SW Cap	Alternate SW Cap	Alternate SW Cap
	Groundwater:	Monitoring	Extraction	Monitoring	Extraction
	Process Options				

CAPITAL COSTS

Waste and OPBWA Soil	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	\$1,537,080
	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,000	\$25,000
	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
	OPBWA Post-Excavation Sampling	\$2,000	\$2,000	\$2,000	\$2,000
	Cap Disposal Areas 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
	Stormwater Management Facilities	\$250,000	\$250,000	\$250,000	\$250,000
	Valleycrest Drive Re-Opening	\$180,750	\$180,750	\$180,750	\$180,750
NAPL	Recovery Systems at NSL-54L and NSL-55L	\$25,000	\$25,000	\$25,000	\$25,000
	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
	Pretreatment System	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000
Leachate	Sanitary Sewer Tie-In and Capacity Sensor	\$35,000	\$35,000	\$35,000	\$35,000
	Collection and Monitoring System	\$764,000	\$764,000	\$764,000	\$764,000
Landfill Gas	Energy Recovery Devices	not included	not included	not included	not included
	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
Groundwater	Extraction System	not included	\$276,000	not included	\$276,000
	Pretreatment System (incremental to leachate)	not included	\$650,000	not included	\$650,000
Subtotal Capital Cost:		\$14,911,447	\$15,837,447	\$11,717,153	\$12,643,153
Contingency (30%):		\$4,473,434	\$4,751,234	\$3,515,146	\$3,792,946
Subtotal:		\$19,384,881	\$20,588,681	\$15,232,299	\$16,436,099
Professional/Technical Services - Project Management (5%):		\$969,244	\$1,029,434	\$761,615	\$821,805
Professional/Technical Services - Remedial Design (6%):		\$1,163,093	\$1,235,321	\$913,938	\$986,166
Professional/Technical Services - Construction Management (6%):		\$1,163,093	\$1,235,321	\$913,938	\$986,166
Institutional Controls:		\$25,000	\$25,000	\$25,000	\$25,000
Total Capital Cost:		\$22,705,311	\$24,113,757	\$17,846,790	\$19,255,236

ANNUAL O&M COSTS

Waste	Cap	\$25,000	\$25,000	\$25,000	\$25,000
	Stormwater Management Facilities	\$25,000	\$25,000	\$25,000	\$25,000
NAPL	Monitoring/Removal	\$5,000	\$5,000	\$5,000	\$5,000
	Extraction System	\$50,000	\$50,000	\$50,000	\$50,000
Leachate	Pretreatment System	\$150,000	\$150,000	\$150,000	\$150,000
	Off-Site Disposal	\$35,000	\$35,000	\$40,000	\$40,000
Landfill Gas	Collection and Flaring	\$50,000	\$50,000	\$50,000	\$50,000
	Monitoring	\$25,000	\$25,000	\$25,000	\$25,000
Groundwater	Extraction System	not included	\$50,000	not included	\$50,000
	Pretreatment System (incremental to leachate)	not included	\$75,000	not included	\$75,000
	Off-Site Disposal	not included	\$43,000	not included	\$43,000
	Monitoring	\$150,000	\$150,000	\$150,000	\$150,000
Monitoring Well Maintenance		\$10,000	\$10,000	\$10,000	\$10,000
Subtotal Annual O&M Cost:		\$525,000	\$693,000	\$530,000	\$698,000
Contingency (30%):		\$157,500	\$207,900	\$159,000	\$209,400
Subtotal:		\$682,500	\$900,900	\$689,000	\$907,400
Professional/Technical Services - Project Management (5%):		\$34,125	\$45,045	\$34,450	\$45,370
Professional/Technical Services - O&M Technical Support (15%):		\$102,375	\$135,135	\$103,350	\$136,110
Institutional Controls:		\$10,000	\$10,000	\$10,000	\$10,000
Total Annual O&M Cost:		\$829,000	\$1,091,080	\$836,800	\$1,098,880

PERIODIC COSTS¹

Leachate	Extraction/Pretreatment System Decommissioning	\$150,000	\$150,000	\$150,000	\$150,000
	Collection System Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
Landfill Gas	Monitoring Network Decommissioning	\$50,000	\$50,000	\$50,000	\$50,000
	Extraction System Decommissioning	not included	\$150,000	not included	\$150,000
Groundwater	Monitoring Network Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
	Subtotal Decommissioning Cost	\$400,000	\$550,000	\$400,000	\$550,000
Contingency (30%):		\$120,000	\$165,000	\$120,000	\$165,000
Subtotal:		\$520,000	\$715,000	\$520,000	\$715,000
Various	5-Year Reviews	\$65,000	\$65,000	\$65,000	\$65,000
Various	Remedial Action Report	\$130,000	\$130,000	\$130,000	\$130,000

Notes

¹Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.

**SUMMARY OF ESTIMATED CAPITAL, ANNUAL O&M, AND PERIODIC COSTS
(LEACHATE/GROUNDWATER SANITARY SEWER DISPOSAL SCENARIO, 9% AGENCY OVERSIGHT)
NORTH SANITARY LANDFILL
DAYTON, OHIO**

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Environmental Media	Alternative No.:	2a	2b	3a	3b
	Disposal Area 1, 2, 3, 5 Cap:	SW Cap	SW Cap	Alternate SW Cap	Alternate SW Cap
	Groundwater:	Monitoring	Extraction	Monitoring	Extraction
	Process Options				

CAPITAL COSTS

Waste and OPBWA Soil	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	\$1,537,080
	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,000	\$25,000
	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
	OPBWA Post-Excavation Sampling	\$2,000	\$2,000	\$2,000	\$2,000
	Cap Disposal Areas 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
	Stormwater Management Facilities	\$250,000	\$250,000	\$250,000	\$250,000
	Valleycrest Drive Re-Opening	\$180,750	\$180,750	\$180,750	\$180,750
NAPL Leachate	Recovery Systems at NSL-54L and NSL-55L	\$25,000	\$25,000	\$25,000	\$25,000
	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
	Pretreatment System	\$1,300,000	\$1,300,000	\$1,300,000	\$1,300,000
	Sanitary Sewer Tie-In and Capacity Sensor	\$35,000	\$35,000	\$35,000	\$35,000
Landfill Gas	Collection and Monitoring System	\$764,000	\$764,000	\$764,000	\$764,000
	Energy Recovery Devices	not included	not included	not included	not included
Groundwater	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
	Extraction System	not included	\$276,000	not included	\$276,000
	Pretreatment System (incremental to leachate)	not included	\$650,000	not included	\$650,000
Subtotal Capital Cost:		\$14,911,447	\$15,837,447	\$11,717,153	\$12,643,153
Contingency (30%):		\$4,473,434	\$4,751,234	\$3,515,146	\$3,792,946
Subtotal:		\$19,384,881	\$20,588,681	\$15,232,299	\$16,436,099
Professional/Technical Services - Project Management (5%):		\$969,244	\$1,029,434	\$761,615	\$821,805
Professional/Technical Services - Remedial Design (6%):		\$1,163,093	\$1,235,321	\$913,938	\$986,166
Professional/Technical Services - Construction Management (6%):		\$1,163,093	\$1,235,321	\$913,938	\$986,166
Institutional Controls:		\$25,000	\$25,000	\$25,000	\$25,000
Total Capital Cost:		\$24,449,960	\$25,966,738	\$19,217,697	\$20,734,885

ANNUAL O&M COSTS

Waste	Cap	\$25,000	\$25,000	\$25,000	\$25,000
	Stormwater Management Facilities	\$25,000	\$25,000	\$25,000	\$25,000
NAPL Leachate	Monitoring/Removal	\$5,000	\$5,000	\$5,000	\$5,000
	Extraction System	\$50,000	\$50,000	\$50,000	\$50,000
Landfill Gas	Pretreatment System	\$150,000	\$150,000	\$150,000	\$150,000
	Off-Site Disposal	\$35,000	\$35,000	\$40,000	\$40,000
	Collection and Flaring	\$50,000	\$50,000	\$50,000	\$50,000
Groundwater	Monitoring	\$25,000	\$25,000	\$25,000	\$25,000
	Extraction System	not included	\$50,000	not included	\$50,000
	Pretreatment System (incremental to leachate)	not included	\$75,000	not included	\$75,000
	Off-Site Disposal	not included	\$43,000	not included	\$43,000
	Monitoring	\$150,000	\$150,000	\$150,000	\$150,000
	Monitoring Well Maintenance	\$10,000	\$10,000	\$10,000	\$10,000
Subtotal Annual O&M Cost:		\$525,000	\$693,000	\$530,000	\$698,000
Contingency (30%):		\$157,500	\$207,900	\$159,000	\$209,400
Subtotal:		\$682,500	\$900,900	\$689,000	\$907,400
Professional/Technical Services - Project Management (5%):		\$34,125	\$45,045	\$34,450	\$45,370
Professional/Technical Services - O&M Technical Support (15%):		\$102,375	\$135,135	\$103,350	\$136,110
Institutional Controls:		\$10,000	\$10,000	\$10,000	\$10,000
Total Annual O&M Cost:		\$890,425	\$1,172,161	\$898,810	\$1,180,546

PERIODIC COSTS¹

Leachate	Extraction/Pretreatment System Decommissioning	\$150,000	\$150,000	\$150,000	\$150,000
Landfill Gas	Collection System Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
	Monitoring Network Decommissioning	\$50,000	\$50,000	\$50,000	\$50,000
Groundwater	Extraction System Decommissioning	not included	\$150,000	not included	\$150,000
	Monitoring Network Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
Subtotal Decommissioning Cost		\$400,000	\$550,000	\$400,000	\$550,000
Contingency (30%):		\$120,000	\$165,000	\$120,000	\$165,000
Subtotal:		\$520,000	\$715,000	\$520,000	\$715,000
Various	5-Year Reviews	\$65,000	\$65,000	\$65,000	\$65,000
Various	Remedial Action Report	\$130,000	\$130,000	\$130,000	\$130,000

Notes

¹Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.

**SUMMARY OF ESTIMATED CAPITAL, ANNUAL O&M AND PERIODIC COSTS
(LEACHATE/GROUNDWATER T&D SCENARIO, 0% AGENCY OVERSIGHT)
NORTH SANITARY LANDFILL
DAYTON, OHIO**

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Environmental Media	Alternative No.:	2a	2b	3a	3b
	Disposal Area 1, 2, 3, 5 Cap:	SW Cap	SW Cap	Alternate SW Cap	Alternate SW Cap
	Groundwater:	Monitoring	Extraction	Monitoring	Extraction
	Process Options				

CAPITAL COSTS

Waste and OPBWA Soil	Disposal Area 4 Waste Relocation	\$1,537,080	\$1,537,080	\$1,537,080	\$1,537,080
	Disposal Area 4 Post-Excavation Sampling	\$25,000	\$25,000	\$25,000	\$25,000
	OPBWA Waste and Soil Consolidation	\$7,650	\$7,650	\$7,650	\$7,650
	OPBWA Post-Excavation Sampling	\$2,000	\$2,000	\$2,000	\$2,000
	Cap Disposal Areas 1, 2, 3, 5	\$9,840,217	\$9,840,217	\$6,645,923	\$6,645,923
	Stormwater Management Facilities	\$250,000	\$250,000	\$250,000	\$250,000
	Valleycrest Drive Re-Opening	\$180,750	\$180,750	\$180,750	\$180,750
	Recovery Systems at NSL-54L and NSL-55L	\$25,000	\$25,000	\$25,000	\$25,000
NAPL Leachate	Extraction System	\$794,750	\$794,750	\$794,750	\$794,750
	Collection Tank	\$50,000	\$50,000	\$50,000	\$50,000
Landfill Gas	Collection and Monitoring System	\$764,000	\$764,000	\$764,000	\$764,000
	Energy Recovery Devices	not included	not included	not included	not included
Groundwater	Monitoring Network Expansion	\$150,000	\$150,000	\$150,000	\$150,000
	Extraction System	not included	\$276,000	not included	\$276,000
	Collection Tank (incremental to leachate)	not included	\$75,000	not included	\$75,000
Subtotal Capital Cost:		\$13,626,447	\$13,977,447	\$10,432,153	\$10,783,153
Contingency (30%):		\$4,087,934	\$4,193,234	\$3,129,646	\$3,234,946
Subtotal:		\$17,714,381	\$18,170,681	\$13,561,799	\$14,018,099
Professional/Technical Services - Project Management (5%):		\$885,719	\$908,534	\$678,090	\$700,905
Professional/Technical Services - Remedial Design (6%):		\$1,062,863	\$1,090,241	\$813,708	\$841,086
Professional/Technical Services - Construction Management (6%):		\$1,062,863	\$1,090,241	\$813,708	\$841,086
Institutional Controls:		\$25,000	\$25,000	\$25,000	\$25,000
Total Capital Cost:		\$20,750,826	\$21,284,697	\$15,892,305	\$16,426,176

ANNUAL O&M COSTS

Waste	Cap	\$25,000	\$25,000	\$25,000	\$25,000
	Stormwater Management Facilities	\$25,000	\$25,000	\$25,000	\$25,000
NAPL	Monitoring/Removal	\$5,000	\$5,000	\$5,000	\$5,000
Leachate	Extraction System	\$50,000	\$50,000	\$50,000	\$50,000
	Off-Site T&D	\$1,629,360	\$1,629,360	\$1,997,280	\$1,997,280
Landfill Gas	Collection and Flaring	\$50,000	\$50,000	\$50,000	\$50,000
	Monitoring	\$25,000	\$25,000	\$25,000	\$25,000
Groundwater	Extraction System	not included	\$50,000	not included	\$50,000
	Off-Site T&D	not included	\$2,154,960	not included	\$2,154,960
	Monitoring	\$150,000	\$150,000	\$150,000	\$150,000
	Monitoring Well Maintenance	\$10,000	\$10,000	\$10,000	\$10,000
Subtotal Annual O&M Cost:		\$1,969,360	\$4,174,320	\$2,337,280	\$4,542,240
Contingency (30%):		\$590,808	\$1,252,296	\$701,184	\$1,362,672
Subtotal:		\$2,560,168	\$5,426,616	\$3,038,464	\$5,904,912
Professional/Technical Services - Project Management (5%):		\$128,008	\$271,331	\$151,923	\$295,246
Professional/Technical Services - O&M Technical Support (15%):		\$384,025	\$813,992	\$455,770	\$885,737
Institutional Controls:		\$10,000	\$10,000	\$10,000	\$10,000
Total Annual O&M Cost:		\$3,082,202	\$6,521,939	\$3,656,157	\$7,095,894

PERIODIC COSTS¹

Leachate	Extraction/Tank Systems Decommissioning	\$150,000	\$150,000	\$150,000	\$150,000
	Collection System Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
Landfill Gas	Monitoring Network Decommissioning	\$50,000	\$50,000	\$50,000	\$50,000
	Extraction System Decommissioning	not included	\$150,000	not included	\$150,000
Groundwater	Monitoring Network Decommissioning	\$100,000	\$100,000	\$100,000	\$100,000
	Extraction System Decommissioning	not included	\$100,000	not included	\$100,000
Subtotal Decommissioning Cost:		\$400,000	\$550,000	\$400,000	\$550,000
Contingency (30%):		\$120,000	\$165,000	\$120,000	\$165,000
Subtotal:		\$520,000	\$715,000	\$520,000	\$715,000
Various	5-Year Reviews	\$65,000	\$65,000	\$65,000	\$65,000
Various	Remedial Action Report	\$130,000	\$130,000	\$130,000	\$130,000

Notes

¹Decommissioning and Remedial Action Report costs occur at Year 30. 5-Year review costs occur at Years 5, 10, 15, 20, and 25. Includes 30% contingency.